

Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/783,059	LAL HAN-CHUNG	LAI, HAN-CHUNG	
	Examiner	Art Unit		
	Zeev Kitov	2836		
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comn GHTS. This application is	in this application. If not include	ed Course THIS	
1. \square This communication is responsive to $\underline{7/17/07}$.				
2. The allowed claim(s) is/are <u>1 - 13</u> .			•	
 3. Acknowledgment is made of a claim for foreign priority unally all blooms. a) All blooms are claim for foreign priority unall all blooms. b) Some* cloim None of the: 1. Certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the priority doc	been received. been received in Application	on No	ion from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.			
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached Exes reason(s) why the oath o	AMINER'S AMENDMENT or No or declaration is deficient.	OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment of	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on ne header according to 37 C	the drawings in the front (not the FR 1.121(d).	back) of	
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)	<u>_</u> .			
1. Notice of References Cited (PTO-892)	_	nformal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ∐ Interview S Paper No	 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 		
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ☐ Examiner's	Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	8. Examiner's Statement of Reasons for Allowance		
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DETAILED ACTION

Examiner acknowledges a submission of the amendment and arguments filed on July 7, 2007. Amendments to Specification and Arguments have overcome rejections under 112, 2nd paragraph and 103(a).

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

An amended independent Claim 1 discloses a mechanism for preventing ESD damage to an electronic device having a plurality of pads and plurality of fan-out signal lines extending from pads and plurality of ESD protection devices configured corresponding to the fan-out signal lines, wherein inter alia, impedances of the ESD protection devices disposed on outermost sides of the connection area having smaller impedance than the other ESD protection devices.

The closest references for the claim are Applicant Admitted Prior Art (AAPA) together with Saito et al. (US 2004/0026741). Regarding Claims 1, AAPA discloses a mechanism for preventing ESD damage to an electronic device having a plurality of pads (P1 to P n in Fig. 1) and plurality of fan-out signal lines (F1 to Fn in Fig. 1) extending from pads and plurality of ESD protection devices (ES1 to ES n in Fig. 1 and 2) configured corresponding to the fan-out signal lines. However, it does not disclose the ESD devices disposed on outermost sides of the connection area having smaller impedance than the other ESD protection devices.

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Saito discloses a compensation of uneven resistances connected to the same pad. According to Fig. 8 and paragraph [0037], for one pad 1, the resistances Ra of resistors 46a in the area A is higher than the resistance Rb of resistors 46b in the area B by a resistance rAB of the parasitic resistance of the signal line 3 from the point A to the point B. Thus Saito discloses resistances of resistors in a plurality of areas for one pad, not for a plurality of pads as claimed. Propagation of the ESD in a group of parallel-connected devices is quite different from propagation of the ESD between different pads of the LCD panel. Saito reference does not disclose and does not suggests that ESD protection devices connected to the outermost pads of the line of plurality of pads having smaller impedance than the ESD protection devices of other pads.

Other independent Claims 3, 5, 7, and 10 essentially rephrase the Claim 1 limitations.

Allowability resides, at least in part, in the above-described limitations, which has not been disclosed in the Prior Art in a search.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeev Kitov whose telephone number is (571) 272-2052. The examiner can normally be reached on 8:30 – 5:00. If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached

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on (571) 272 – 2800, Ext. 36. The fax phone number for organization where this application or proceedings is assigned is (571) 273-8300 for all communications.

Z.K. 7/20/2007

> MICHAEL SHERRY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800